

ABSTRACT OF THE DISCLOSURE

A power supply device for driving has a switching control circuit that switches a switching element for a power source, and an output voltage generation portion that generates a predetermined output voltage in accordance with the switching of the switching element for the power source. In addition, the output voltage generation portion includes an overvoltage detection circuit that detects an overvoltage. Furthermore, the switching control circuit includes an output voltage suppression processing unit that suppresses an increase in the output voltage when the overvoltage is detected. In this case, if the overvoltage is detected, the output voltage suppression processing unit suppresses an increase in the output voltage. In the period of time until an operation of a power supply circuit portion being stopped, the output voltage does not exceed a gate withstand voltage of a power element.